



SEQUENCE LISTING

<110> Hunter, Tony  
Kun Ping, Lu  
Hanes, Steven D.

<120> NIMA INTERACTING PROTEINS

<130> 66671-085

<140> US 10/716,379  
<141> 2003-11-17

<150> US 10/616,410  
<151> 2003-07-08

<160> 22

<170> FastSEQ for Windows Version 4.0

<210> 1  
<211> 1014  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (25) . . . (513)

<400> 1

tgc tgg ccc aac ccc gag gtc tcc ttt 51  
Met Ala Asp Glu Lys Leu Pro Pro  
1 5

ggc tgg gag aag cgc atg agc cgc agc tca ggc cga gtg tac tac ttc 99  
Gly Trp Glu Lys Arg Met Ser Arg Ser Gly Arg Val Tyr Tyr Phe  
10 15 20 25

aac cac atc act aac gcc agc cag tgg gag cgg ccc agc ggc aac agc 147  
Asn His Ile Thr Asn Ala Ser Gln Trp Glu Arg Pro Ser Gly Asn Ser  
30 35 40

agc agt ggt ggc aaa aac ggg cag ggg gag cct gcc agg gtc cgc tgc 195  
Ser Ser Gly Gly Lys Asn Gly Gln Gly Glu Pro Ala Arg Val Arg Cys  
45 50 55

tcg cac ctg ctg gtg aag cac agc cag tca cgg cgg ccc tcg tcc tgg 243  
Ser His Leu Leu Val Lys His Ser Gln Ser Arg Arg Pro Ser Ser Trp  
60 65 70

cgg cag gag aag atc acc cgg acc aag gag gag gcc ctg gag ctg atc 291

Arg Gln Glu Lys Ile Thr Arg Thr Lys Glu Glu Ala Leu Glu Leu Ile			
75	80	85	
aac ggc tac atc cag aag atc aag tcg gga gag gag gac ttt gag tct			339
Asn Gly Tyr Ile Gln Lys Ile Lys Ser Gly Glu Glu Asp Phe Glu Ser			
90	95	100	105
ctg gcc tca cag ttc agc gac tgc agc tca gcc aag gcc agg gga gac			387
Leu Ala Ser Gln Phe Ser Asp Cys Ser Ser Ala Lys Ala Arg Gly Asp			
110	115	120	
ctg ggt gcc ttc agc aga ggt cag atg cag aag cca ttt gaa gac gcc			435
Leu Gly Ala Phe Ser Arg Gly Gln Met Gln Lys Pro Phe Glu Asp Ala			
125	130	135	
tcg ttt gcg ctg cgg acg ggg gag atg agc ggg ccc gtg ttc acg gat			483
Ser Phe Ala Leu Arg Thr Gly Glu Met Ser Gly Pro Val Phe Thr Asp			
140	145	150	
tcc ggc atc cac atc atc ctc cgc act gag tgagggtggg gagcccaggc			533
Ser Gly Ile His Ile Ile Leu Arg Thr Glu			
155	160		
ctggcctcgg ggcagggcag ggcggctagg ccggccagct ccccccttgcc cgccagccag			593
tggccgaacc ccccactccc tgccaccgtc acacagtatt tattgttccc acaatggctg			653
ggagggggcc cttccagatt gggggccctg gggtcccccac tccctgtcca tccccagttg			713
gggctgcgac cgccagattc tccctaagg aattgacttc agcaggggtg ggaggctccc			773
agaccaggc cagtgtggtg ggaggggtgt tccaaagaga aggcctggtc agcagagccg			833
ccccgtgtcc ccccagggtgc tggaggcaga ctcgagggcc gaattgttgc tagttaggcc			893
acgctcctct gttcagtcgc aaaggtgaac actcatgcgg cagccatggg ccctctgagc			953
aactgtgcag acccttcac ccccaattaa acccagaacc actaaaaaaaaaaaaaaaaaaaa			1013
a			1014
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<211> 163			
<212> PRT			
<213> Homo sapiens			
<400> 2			
Met Ala Asp Glu Glu Lys Leu Pro Pro Gly Trp Glu Lys Arg Met Ser			
1	5	10	15
Arg Ser Ser Gly Arg Val Tyr Tyr Phe Asn His Ile Thr Asn Ala Ser			
20	25	30	
Gln Trp Glu Arg Pro Ser Gly Asn Ser Ser Ser Gly Gly Lys Asn Gly			
35	40	45	
Gln Gly Glu Pro Ala Arg Val Arg Cys Ser His Leu Leu Val Lys His			
50	55	60	
Ser Gln Ser Arg Arg Pro Ser Ser Trp Arg Gln Glu Lys Ile Thr Arg			
65	70	75	80
Thr Lys Glu Glu Ala Leu Glu Leu Ile Asn Gly Tyr Ile Gln Lys Ile			
85	90	95	
Lys Ser Gly Glu Asp Phe Glu Ser Leu Ala Ser Gln Phe Ser Asp			
100	105	110	

Cys Ser Ser Ala Lys Ala Arg Gly Asp Leu Gly Ala Phe Ser Arg Gly  
115 120 125  
Gln Met Gln Lys Pro Phe Glu Asp Ala Ser Phe Ala Leu Arg Thr Gly  
130 135 140  
Glu Met Ser Gly Pro Val Phe Thr Asp Ser Gly Ile His Ile Ile Leu  
145 150 155 160  
Arg Thr Glu

<210> 3  
<211> 31  
<212> DNA  
<213> Homo sapiens

<400> 3  
gcgcctgcag tatctataya tggaataytg t 31

<210> 4  
<211> 31  
<212> DNA  
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<400> 4  
gcgcggatcc rggttcaga ggktyraasa g 31

<210> 5  
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<212> DNA  
<213> Homo sapiens

<400> 5  
gcgcgtacca agwccacygt ayattattcc 30

<210> 6  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> synthetic peptide

<400> 6  
Met Tyr Asp Val Pro Asp Tyr Ala Ser Arg Pro Gln Asn  
1 5 10

<210> 7  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> synthetic peptide

<400> 7

Met	Ala	Ser	Tyr	Pro	Tyr	Asp	Val	Pro	Asp	Tyr	Ala	Ser	Pro	Glu	Phe
1			5					10						15	
Leu	Val	Asp	Pro	Pro	Gly	Ser	Lys	Asn	Ser	Ile	Ala	Arg	Gly	Lys	Met
			20					25						30	

<210> 8

<211> 39

<212> PRT

<213> Homo sapiens

<400> 8

Glu	Lys	Leu	Pro	Pro	Gly	Trp	Glu	Lys	Arg	Met	Ser	Arg	Ser	Ser	Gly
1			5					10						15	
Arg	Val	Tyr	Tyr	Phe	Asn	His	Ile	Thr	Asn	Ala	Ser	Gln	Trp	Glu	Arg
			20					25						30	
Pro	Ser	Gly	Asn	Ser	Ser	Ser									
			35												

<210> 9

<211> 39

<212> PRT

<213> Yeast ESS1

<400> 9

Thr	Gly	Leu	Pro	Thr	Pro	Trp	Thr	Val	Arg	Tyr	Ser	Lys	Ser	Lys	Lys
1			5					10						15	
Arg	Glu	Tyr	Phe	Phe	Asn	Pro	Glu	Thr	Lys	His	Ser	Gln	Trp	Glu	Glu
			20					25						30	
Pro	Glu	Gly	Thr	Asn	Lys	Asp									
			35												

<210> 10

<211> 38

<212> PRT

<213> Homo sapiens

<400> 10

Val	Pro	Leu	Pro	Ala	Gly	Trp	Glu	Met	Ala	Lys	Thr	Ser	Ser	Gly	Gln
1			5					10						15	
Arg	Tyr	Phe	Leu	Asn	His	Ile	Asp	Gln	Thr	Thr	Thr	Trp	Gln	Asp	Pro
			20					25						30	
Arg	Lys	Ala	Met	Leu	Ser										
			35												

<210> 11

<211> 38

<212> PRT

<213> Mus musculus

<400> 11

Ser	Pro	Leu	Pro	Pro	Gly	Trp	Glu	Glu	Arg	Gln	Asp	Val	Leu	Gly	Arg	
1																
														10	15	
Thr	Tyr	Tyr	Val	Asn	His	Glu	Ser	Arg	Arg	Thr	Gln	Trp	Lys	Arg	Pro	
														20	25	30
Ser	Pro	Asp	Asp	Asp	Leu											
														35		

<210> 12

<211> 38

<212> PRT

<213> Yeast RSPS

<400> 12

Gly	Arg	Leu	Pro	Pro	Gly	Trp	Glu	Arg	Arg	Thr	Asp	Asn	Phe	Gly	Arg	
1																
														10	15	
Thr	Tyr	Tyr	Val	Asp	His	Asn	Thr	Arg	Thr	Thr	Thr	Trp	Lys	Arg	Pro	
														20	25	30
Thr	Leu	Asp	Gln	Thr	Glu											
														35		

<210> 13

<211> 38

<212> PRT

<213> Homo sapiens

<400> 13

Thr	Ser	Val	Gln	Gly	Pro	Trp	Glu	Arg	Ala	Ile	Ser	Pro	Asn	Lys	Val	
1																
														10	15	
Pro	Tyr	Tyr	Ile	Asn	His	Glu	Thr	Gln	Thr	Thr	Cys	Trp	Asp	His	Pro	
														20	25	30
Lys	Met	Thr	Glu	Leu	Tyr											
														35		

<210> 14

<211> 37

<212> PRT

<213> Rattus rattus

<400> 14

Ser	Asp	Leu	Pro	Ala	Gly	Trp	Met	Arg	Val	Gln	Asp	Thr	Ser	Gly	Thr	
1																
														5	10	15
Tyr	Tyr	Trp	His	Ile	Pro	Thr	Gly	Thr	Thr	Gln	Trp	Glu	Pro	Pro	Gly	
														20	25	30
Arg	Ala	Ser	Pro	Ser												
														35		

<210> 15  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> consensus sequence

<400> 15  
Leu Pro Gly Trp Glu Gly Tyr Tyr Asn His Thr Thr Trp Pro  
1 5 10

<210> 16  
<211> 105  
<212> PRT  
<213> Homo sapiens

<400> 16  
His Leu Leu Val Lys His Ser Gln Ser Arg Arg Pro Ser Ser Trp Arg  
1 5 10 15  
Gln Glu Lys Ile Thr Arg Thr Lys Glu Glu Ala Leu Glu Leu Ile Asn  
20 25 30  
Gly Tyr Ile Gln Lys Ile Lys Ser Gly Glu Glu Asp Phe Glu Ser Leu  
35 40 45  
Ala Ser Gln Phe Ser Asp Cys Ser Ser Ala Lys Ala Arg Gly Asp Leu  
50 55 60  
Gly Ala Phe Ser Arg Gly Gln Met Gln Lys Pro Phe Glu Asp Ala Ser  
65 70 75 80  
Phe Ala Leu Arg Thr Gly Glu Met Ser Gly Pro Val Phe Thr Asp Ser  
85 90 95  
Gly Ile His Ile Ile Leu Arg Thr Glu  
100 105

<210> 17  
<211> 107  
<212> PRT  
<213> Yeast ESS1

<400> 17  
His Ile Leu Ile Lys His Lys Asp Ser Arg Arg Pro Ala Ser His Arg  
1 5 10 15  
Ser Glu Asn Ile Thr Ile Ser Lys Gln Asp Ala Thr Asp Glu Leu Lys  
20 25 30  
Thr Leu Ile Thr Arg Leu Asp Asp Ser Lys Thr Asn Ser Phe Glu  
35 40 45  
Ala Leu Ala Lys Glu Arg Ser Asp Cys Ser Ser Tyr Lys Arg Gly Gly  
50 55 60  
Asp Leu Gly Trp Phe Gly Arg Gly Glu Met Gln Pro Ser Phe Glu Asp  
65 70 75 80  
Ala Ala Phe Gln Leu Lys Val Gly Glu Val Ser Asp Ile Val Glu Ser  
85 90 95

Gly Ser Gly Val His Val Ile Lys Arg Val Gly  
100 105

<210> 18  
<211> 83  
<212> PRT  
<213> E. coli

<400> 18  
His Ile Leu Val Lys Glu Glu Lys Leu Ala Leu Asp Leu Leu Glu Gln  
1 5 10 15  
Ile Lys Asn Gly Ala Asp Phe Gly Lys Leu Ala Lys Lys His Ser Ile  
20 25 30  
Cys Pro Ser Gly Lys Arg Gly Asp Leu Gly Glu Phe Arg Gln Gly  
35 40 45  
Gln Met Val Pro Ala Phe Asp Lys Val Val Phe Ser Cys Pro Val Leu  
50 55 60  
Glu Pro Thr Gly Pro Leu His Thr Gln Phe Gly Tyr His Ile Ile Lys  
65 70 75 80  
Val Leu Tyr

<210> 19  
<211> 84  
<212> PRT  
<213> B.subtilis

<400> 19  
His Ile Leu Val Ala Asp Lys Lys Thr Ala Glu Glu Val Glu Lys Lys  
1 5 10 15  
Leu Lys Lys Gly Glu Lys Phe Glu Asp Leu Ala Lys Glu Tyr Ser Thr  
20 25 30  
Asp Ser Ser Ala Ser Lys Gly Gly Asp Leu Gly Trp Phe Ala Lys Glu  
35 40 45  
Gly Gln Met Asp Glu Thr Phe Ser Lys Ala Ala Phe Lys Leu Lys Thr  
50 55 60  
Gly Glu Val Ser Asp Pro Val Lys Thr Gln Tyr Gly Tyr His Ile Ile  
65 70 75 80  
Lys Lys Thr Glu

<210> 20  
<211> 91  
<212> PRT  
<213> C. jejuni

<400> 20  
His Ile Leu Val Ala Thr Glu Lys Glu Ala Lys Asp Ile Ile Asn Glu  
1 5 10 15  
Leu Lys Gly Leu Lys Gly Lys Glu Leu Asp Ala Lys Phe Ser Glu Leu  
20 25 30

Ala Lys Glu Lys Ser Ile Asp Pro Gly Ser Lys Asn Gln Gly Gly Glu  
35 40 45  
Leu Gly Trp Phe Asp Gln Ser Thr Met Val Lys Pro Phe Thr Asp Ala  
50 55 60  
Ala Phe Ala Leu Lys Asn Gly Thr Ile Thr Thr Thr Pro Val Lys Thr  
65 70 75 80  
Asn Phe Gly Tyr His Val Ile Leu Lys Glu Asn  
85 90

<210> 21

<211> 67

<212> PRT

<213> A. thaliana

<400> 21

Ile Val Ser Lys Ala Asn Phe Glu Glu Val Ala Thr Arg Val Ser Asp  
1 5 10 15  
Cys Ser Ser Ala Lys Arg Gly Gly Asp Leu Gly Ser Phe Gly Arg Gly  
20 25 30  
Gln Met Gln Lys Pro Phe Glu Glu Ala Thr Tyr Ala Leu Lys Val Gly  
35 40 45  
Asp Ile Ser Asp Ile Val Asp Thr Asp Ser Gly Val His Ile Ile Lys  
50 55 60  
Arg Thr Glu  
65

<210> 22

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> consensus sequence

<400> 22

His Ile Leu Val Glu Lys Phe Glu Leu Ala Lys Ser Cys Ser Ser Lys  
1 5 10 15  
Gly Gly Asp Leu Gly Phe Arg Gly Gln Met Phe Asp Ala Ala Phe Leu  
20 25 30  
Lys Gly Glu Ser Pro Val Thr Gly Tyr His Ile Ile Lys  
35 40 45